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Round Number 365APT	TEN ONMING ONG. NZ. ON NOMEZN
· AUTHOR(e)	8. CONTRACT OR GRANT NUMBER(*)
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#### INTRODUCTION

14818C LANCE, Missile Number 5338, Round Number 365APT, was launched from LC-39, White Sands Missile Range (WSMR), New Mexico, at 1336:39 MDT, 16 June 1981. The scheduled launch time was 1230 MDT.

#### DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

#### 1. Observations:

#### a. Surface

- (1) Standard surface observations to include pressure, temperature (°C), relative humidity, dew point (°C), density (gm/m³), wind direction and speed, and cloud cover were made at the LC-39 Met Site at T-0 minutes.
- (2) Monitor of wind speed and direction from one anemometer was provided in the launch control room.

### b. Upper Air:

(1) Low level wind data were obtained from RAPTS T-9 pibal observations at:

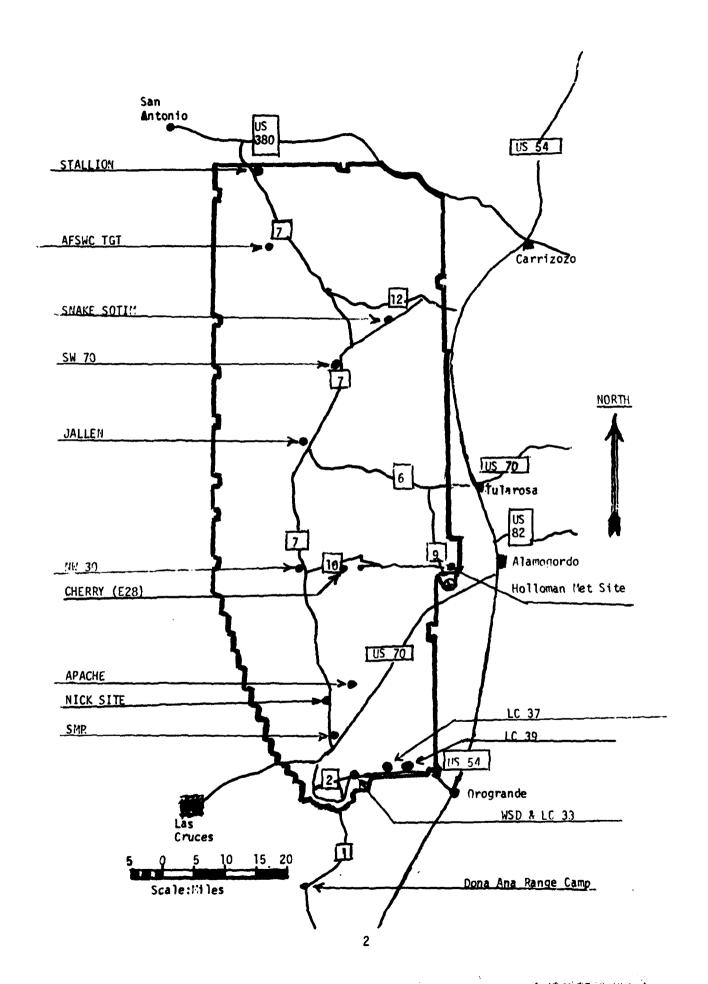
## SITE AND ALTITUDE

LC-39 2400 Meters LC-39 2760 Meters

(2) Air structure data (rawinsonde) were colloected at the following Met Sites. Data were collected from surface to high as possible in 500-feet increments.

#### SITE AND TIME

WSD 1320 MDT APA 1300 MDT NW-30 1320 MDT



PPOJECT SURFACE OBSERVATION

				-							
TABLE							<b>U</b> )	STATION 1C-39	39		
DATE 16	HUNOW	- 1981	7				^	(= 530,938.8	32 Y=14	X= 530,938.82 Y= 186,564.96 H= 4063.75	- 4063.75
71ME M D _T	PRESSUPE mbs	·	TENPERATURE OF OC	DEW POINT OF OC	)	PELATIVE HUMIDITY %	DENSIJY gm/mg	DIRECTION degs In	WIND SPEED kts	CHARACTER kts	VISIBIL- ITY
1337	884.6		26.4		0.5	. 6l	1024	136	08		50
085780CT10	ᆚ_	ST LAYE	à	2nd LAYER	YFR	1 3rd	LAYER	T	REMARKS	v	
TO VISIBILITY	<b>_</b>	AMT   TYPE   HGT	HGT	AMT   TYP	E HGT		AMT TYPE   HGT				
		C1	20,000								
					  -		-				

FATION						
IC COMPU	1337	26.4	12.3	14.1	00.5	19
PSYCHROMETRIC COMPUTATION	TIME: MOT	DRY BULB TEI'P.	WET BULB TEMP.	WET BULB DEPR.	DEW POINT	RELATIVE HUMID.

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
SFC	136	08
60	132	08
120	124	08
180	118	08
240	118	07
300	114	07
360	114	06
420	114	06
480	109	07
540	111	08
600	114	80
660	116	80
720	119	80
780	112	08
840	117	10
900	119	10
960	121	09
1020	120	09
1080	116	08
1140	122	07
1200	123	07
1260	115	07
1320	109	07
1380	104	06
1440	101	05
1500	008	09
1560	092	09
1620	093	08
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HEIGHT	DIRECTION	SPELD
AGL	DEGREE 3	KTS
1680	106	07
1740	116	07
1800	118	08
1860	118	10
1920	115	11
1980	116	10
2040	119	08
2100	127	06
2160	124	05
2220	112	05
2280	103	04
2340	086	03
2400	056	04
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HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
SFC	136	08
60	132	80
120	124	09
180	114	08
240	100	08
300	090	08
360	090	08
420	090	08
480	090	07
540	086	06
600	083	07
660	076	08
720	075	09
780	083	08
840	091	08
900	092	10
960	100	10
1020	109	09
1080	121	80
1140	132	07
1200	142	07
1260	143	07
1320	143	07
1380	142	07
1440	140	07
1500	137	06
1560	132	06
1620	127	06
1680	124	06
1740	118	05
1800	111	05
1860	104	05
1920	099	05
1980	097	05
2040	097	05
2100	101	05

UETOUT	DIDECTION	Cores
HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
2160	106	05
2220	115	05
2280	115	05
2340	105	05
2400	085	05
2460	070	05
2520	061	05
2580	077	05
2640	102	05
2700	100	07
2760	087	08
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HEIGHT	DIRECTION	SPEED
AGL	DEGREES	<u>rts</u>
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## COMPUTER MET 1ESSAGES 16 June 1981

	O MDT	APA 130	O MDT	NE-30 1	320 MDT
METCM1324		METOM1324	064	MET CM1 329	065
161930122	888	161900121	889	161930122	
00196012	30200888	00249012	30240889	00267007	30420886
01211019	29830878	01257017	29950879	01273012	30170876
02207018	29530853	02246016	29580854	02265014	29660852
03188014	29120814	03221014	29180815	03261016	29210813
04197019	28630767	04230016	28680769	04272013	28700766
05209014	28210723	05247020	28180724	O5MISG	28240722
06232008	27820680	06246016	27750681	O6MISG	27800679
07170011	27530639	07219009	27650640	O7MISG	27560639
08126006	27610601	08053008	27550602	08MISG	27450600
09090013	27330565	09081016	27270566	O9MISG	27310564
10097012	27070531	10069011	27070531	10MISG	27040530
11024007	26800498	11046008	26750499	IMISG	26710497
12618008	26180452	12577012	26150453	12564009	26080451
13584016	25340396	13570019	25350397	13573014	25310395
14552019	24570346	14553012	24560346	14571017	24550345
15542020	23820300	15535018	23770301	15555016	23720300
16445033	23160260	16450024	23050260	16465025	22970259
17425045	22560224	17440044	22460224	17440037	22450223
18434044	22010192	18435040	21980192	18437041	21940191
19444034	21520164	19438032	21490164	19433031	21530164
20464030	20980140	20457028	21030140	20469028	20980139
21496021	20660119	21497021	20660119	21503023	20620118
22547006	20500101	22525008	20520101	22000000	20470100
23262013	20410086	23268010	20520086	23254009	20420085
24237011	20650072	24207006	20670073	24231004	20730072
25159006	21090062	25147009	21080062	25165002	21050061
26188012	21410053	26210010	21400053	26176017	21500052

GEODETIC COORDINATES 32.40043 LAT DEG 106.37033 LON DEG								
UATA	REL.HUM. PERCENT	19.0 20.0	33.0 36.0	36.0 20.0 18.0	18.0 18.0 21.0 21.0			
FICANT LEVEL 1670020394 WHITE SANDS	TEMPERATURE IR DEWPOINT REES CENTIGRADE							
SIGNIR V TABLE	TEMPE AIR Degrees	28.1	14.6	 	-1.0 -19.5 -35.3	-43.4 -51.9 -60.4 -60.7 -63.1	-67.4 -66.2 -69.0 -70.0	1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50
MSL JT	E GEOMETRIC ALTITUDE S MSL FEET	3989.0 4381.7	7418.5 9167.6	10594•1 13126•9 14277•6	17057.5 19482.5 25095.4 31912.5	36024.5 40880.3 46193.6 46893.3 47868.4	51933.2 52487.1 54317.6 55017.6	62077.0 62963.7 68967.1 79817.4 88677.6
STATION ALTITUDE 3989.00 FFET MSL 16 JUNE 81 1320 HRS MDT ASCENSION NO. 39"	PRESSURE MILLIBARS	887.6	737.8	7,01.0 636.6 609.6	548.8 500.0 400.0 300.0	250.0 200.0 . 155.2 . 150.0 143.0	116.8 113.6 103.6 100.0	70.0 67.0 57.0 37.0
STATI 16 JU ASCEN								

GEODETIC COORDINATES 32.40043 LAT DEG 106.37033 LON DEG	WIND DATA INDEX CTION SPEED OF ES(IN) KNOTS REFRACTION	12.0 1.	1.000258	450000 T	1.000252	1.00024	15.5 1.0004	22.3	22.8	23.3	18.3	12.7	10.2	.2 10.5 1.000211	, r	1.000201	9.9	7.3	8.5	9.5	# o	9.6	11.7		12.9	12.1	10.8	3 9.3 1.000154	3 7.6	6.9	1:000·I	6.2 1.00014	5.3 1.00014	6.1 1.0001	7.3 1.00013	9.4 1.0001	21100 - 1 - 00m2
	D1RE DEGRE	110.0				ı	7.501	111.0	106.4	109.0	113.3	118.6	124.0	127.2	121	115.1	102	95.9	3.46	91.5	86.3	78.5	\$ 00 G	50.7	4.84	49.3	40.1	41.3	23	٥		359.6	N I	35/•3	352.0	3.446	
0.6.T.A 3.9.4 NDS	SPEED OF SOUND KNOTS	677	3 677-1		668	999	900	2 663.2	629	\$ 65B	_	7 655.2	<u>.</u>	3 652.1		C + 649 - 3	949	_	_	647		9 647.1			3 643	0 642		049	N	۔ ص	959	5 635.1	2 633	0 631	630	624	3 627.2
UPPER AIR DAT 1670020394 WHITE SANDS TABLE 6	DENSITY GM/CUBIC METER	1023.	1023.3	1001	966	983.8	9/1	947	934	922•	910.	897.	885	873	000	835.6	823	811.3	194°	776.1	760.8	7 4 7	725.7	714.	703	692.	680°	669.9	629	949	960		620	11	;	593	•
	REL.HUM. PERCENT	19.0	19.0	25.8	28.6	29.8	600	33.0	34.0	34.9	35.7	36.0	36.0	36.0	30.4	27.1	24.0	20.8	19.4	18.5	18.0	20.01	18.0	18.0	18.0	18.0	18.0	18.0	18.0	•	•	18.5	18.8	19.1	•	14.0	•
ET MSL MDT	TEMPERATURE R DEWPOINT EES CENTIGRADE	2•3	2.5	3		8	•	11.6	-2.4	-3•3	74.5	-5.2	F • 9 1	# · O	1.44 m	7 5	-16.2	-18.7	6	-18.5	-18.6	5.65	2000	-21.5	-22.2	-22.9	-23.5	24.5	6.42	-25.5 1	26.5	2	28	53	30	131.1	T • JC _
3989•00 FEET 1320 HRS 1	A I DE GR	28.1	28.0	21.8	20.3	18.8	0.1	7.0	13.0	11.7	10.4	9•1	B.,	o n o n	0 =	* **	2.3	1.3	1.9	3.1	# V	2.	6	•••	6	-1.7	-2.5	n•n-	1.5-	6•11-	7.01	0.71	9.9-	-10.1	-11.4	-12.	0.47
UDE 39	PRESSURE MILLIBARS	887.6	887.3	856.8									700	4007	676.6	664.1							571.2	560.5	550.0	534.6	529.3	517.5	#•60c	/ * 66 th	684.0	7.094	1.0/4	G•19#	#254 #154	440.0	1010
STATION ALTITUDE 16 JUNE 81 ASCENSION NO. 3	GEOMETRIC ALTITUDE MSL FEET	3989.0	C-000+	5000.0	5500.0	0.0009	2000.0	7500.0	80000	8500.0	0.0006	9500.0	100001	1,0000	11500.0	12000-0	12500.0	13000.0	13500.0	14000.0	14500.0	15000-0	16000.0	16500.0	17000.0	17500.0	18000.0	18500.0	19000-0	19500.0	20000-0	20200.0	21000.0	21500.0	22000.0	22500•0	•

XX WIND DATA INVALID DUE TO MISSIMG RAW AZIMUTH AND ELEVATION ANGLES.

GEODETIC COORDINATES 32.40043 LAT DEG		INDEX	OF REFRACTION	1.000130	1.000128	1.000126	1.000124	1.000122		1.000118	1.000116	1.000114	1.000110	1.000108		1.000105	1.000103	1.000101		1.000098				1.000091		1.000088	1.000085	1.000083	1.000081	1.000080	1.000078	1.00001	1.000075	1.000074	1.000073	1.00001	1.000070	1.000068	1.000067	1.000066	1.000064
GEODETIC 32.1		TA	SPEEU KNOTS	12.8	13.8	14.6	15.2	15.8	16.8	•	•	7.0	• •	18.1	17.4	17.1	17.6	18.6	19.5	20.3	21.5	22.9	24.3	27.2	30.6	36.1	38.9	40.5	42.1	43.3	ស. ភ្	44.7	6.44	•	48.0	47.0	46.0	43.7	÷	0.04	38.8
		WIND DATA	DEGREES (TN)	338.6	338.9	340.4	336.7	330.7	324.0	317.8	312.3	30.705	3005	310.7	313.3	314.4	313.3	311.2	309•3	307.5	300.1	292.0	276.1	263.1	254.4	248.7	247.3	8.44Z	242.4	240.0	237∙8	237.2	236.7	237.3	237.9	240.0	242.5	244.0	246.0	248.0	250.1
04TA 34 05	CON'T	SPEED OF	KNOTS	625.6	624.0	_	_		618.0	616.5	615.1	613.7	2.210	F 604	_				_	_		598.1			294.4	593.1				_							579.2	578.2	577.1	576.1	575.0
UPPER AIR DAT 1670020394 WHITE SANDS	TABLE 6 CO		METER	575.7	567.3	559.0	550.8	541.9	533.1	524.4	515.8	207	7.664	484.1	475.3	467.6	460.0	452.6	445.3	438.0	430.2	422.5	415.0	407.6	400	393.2	379.4	372.2	365.2	358.2	351.5	344.8	338.3	331.9	•	319.5	313.4	307.1	301.0	594.9	289.0
-		REL.HUM.	PERCEN	20.1	20.4	20.7	20.9	21.0	21.0	21.0	21.0	0.12	010	21.0	21.0	21.0	21.0	21.0	21.0	20.6**	18.0**	15.4**	12.9**	10.3**	7.8**	0.7**	****														
T MSL MDT		TEMPERATURE	CENTIGRADE	-33.1	-34.0	-35.0	-36.0	-37.0	-38.0	-39.0	0.0		60.0	0.00	6.44-	-45.9	6.94-	6.44-	6.84-	-50.1	-52.0	-24.1	-56.4	-59.0	-61.9	000-	0.06-	•													
989.00 FEET MSL 1320 HRS MDT		TEMF	DEGREES	-15.4	-16.7	-18.0	-19.3	-20.4	-21.6	-22.8	750.	150.1	7.02	-28.5	-29.7	-30.9	-32.0	-33.2	-34.3	-35.5	-36.5	-37.4	-38•4	7.66-	**0*-	7000	46.4	2.44-	-45.1	0.94-	6.94	-47.7	-48.6	-49.5	-50.4	-51.2	-52.1	-55.9	-53.7	-54.5	-55.3
n a		PRESSURE	MILLIUARS	420.2	417.8	9.604	401.5	393.2	385.0	377.0	1000	161.0	340.5	339.2	332.2	325.2	318.4	311.8	305.3	298.8	292.3	285.9	279.6	273.5	26.16.5	255.0	250.3	244.6	239.0	233.6	228.3	225.1	218.1	215.1	208.3	203.5	198.9	194.2		185.1	_
STATION ALTITUDE 16 JUNE 81 ASCENSION NO. 3		GEOMETRIC	MSL FEET	23500.0	24000.0	24500.0	25000.0	25500.0	26000.0	26500.0	0.00072	0.00012	28500.0	29000-0	29500 • 0	30000.0	30500.0	31000.0	31500.0	32000.0	32500.0	33000.0	33500.0	34000.0	34500.0	35500.0	36000•0	36500.0	37000.0	37500.0	38000.0	38500.0	39000.0	39500.0	0.00004	40200.0	41000.0	41500.0	42000.0	42500.0	43000.0

\*\* AT LLAST ONE ASSUMED RELATIVE HUMINITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 16 JUNE 81 ASCENSION NO. 3	rude . 39	3989.00 FEET MSL 1 20 HRS MOT	- '	UPPER AIR DAT 1670020394 WHITE SANDS TABLE 6 CON'T	DATA 94 DS N'T		GEODETIC 32-4( 106-3	DETIC COORDINATES 32.40043 LAT DEG 106.37033 LON DEG
GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEEU OF SOUND KNOTS	WIND DATA DIRECTION S DEGREES(TN) K	TA SPEED KNOTS	INDEX OF REFRACTION
43500.0	176.5	-56.1		283.3	574.0	251.5	36.4	1.000063
0.000++	172.3	-56.9		277.6	572	253.0	33.7	1.000062
44500.0	168.3	-57.7		272.1	-	251.8	32.6	1.000061
42000.0	164.3	-58.5		266.6		249.1	32.4	1.000059
45500.0	160.4	-59.3		261.3		248.0	32.6	1.000058
46000.0	152.9	-60•1		256.1	568.7	248.3	33.1	1.000057
47000.0	149.2	-61.0		245.0		252.8	31.7	1.000055
47500.0	145.6	-62.2		240.4		256.5	30.3	1.000054
48000.0	142.1	-63.2		235.8		<b>5</b> 59•8	30.5	1.000053
48500.0	138.6	-63.8		230.6		263.0	4000	1.000051
0.00064	130.5	5 - + Q - 1		225.5		265.5	30.4	1.000050
0.00003	151.0	8 · + 9 ·		220.5		267.3	30.1	•
50500.0	125.4	160.4		210.6	561.6	2007	27.0	1.000048
51000.0	122.4	\$ • 99 L		206.2		272.8	24.5	
51500.0	119.3	-66.9		201.6		274.3	21.8	
52000.0	110.4	-67.3		197.0	559.0	275.9	19.1	1.000044
52500.0	115.5	-66.2		191.1	560.4	277.8	16.7	1.000043
53000.0	110.7	0-/9-		187.1		279.4	15.4	
54000.0	105.3	16/01		183.1	558•3	281.4	0 : 5 : 6	1.000041
54500.0	102.6	1.000		174.9	-	303.2	0.0	0.0000.1
55000.0	100.1	-67.7		169.7		320 1	9.9	
55500.0	97.	-67.9		165.6		342.5	•	1.000037
56000.0	95.	-68.1		161.6		69.2	8.5	1.000036
52000-0	. 6	168 • 5		157.8	557.6	115.5		1.000035
57500.0	88.0	-68.7		150.4		148.1	9 0	1.000034
58000.0	86.0	-689		146.7	556.8	147.8	10.9	1.000033
58500.0	83.8	-69.1		143.1		147.5	12.4	1.000032
2900000	81.7	-69.3		139.7	מו	146.7	13.7	1.000031
59500.0	79.7	-69.5		136.3		144.7	•	1.000030
0.00009	11.1	7-69-1		133.1		143.0	15.2	1.000030
60500.0	75-8	6.69-		129.9	555.4	139.5	14.7	1.000029
01000.0	72.1	1,66.0		165.9		133.6	12.5	1.000028
62000-0	70.3	15.00		116.0		124.7	11.6	1.000026
62500.0		-63.8		114.1		123.0	11.0	1.000025
63000.0	6.99	-64.3		111.5		120.4	10.5	1.000025

σ.	3989.00 FEET MSL 1320 HRS MDT 4	ET MSL. MDT		M 7 ()	⋖		EOD 1	000
PRESSURE TEMPERATURE AIR DEWPOIN MILLIBARS DEGREES CENTIGRA	CERA	ERATURE DEMPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION S DEGREES(IN) K	JA SPEED KNOTS	INDEX OF REFRACTION
65.3 -63.7				108.6	563.8	116.5	8.0	1.000024
٩				100.001	565.0	107.5	8.6	1.00002
~				100.2		102.7	8.6	1.000022
٠,				97.5	-	986	9.4	1.000022
<b>co</b> .				6° †6		99.5	φ.	•
• •				90.06	568.7	7.00T	0 60	1.000021
٠,				87.6		9.46	9.8	
<b>\$</b> (				85.3		91.0	Ø .	
158.0				D . C . C	571.5	8000	10.4	1.000018
8				78.8		82.0	13.9	
9.				76.8		85.0	18.3	1.000017
				74.9		86.8 8.00	22.9	1.000017
4004 150°4				71.5	573.5	0.06	27.7	1.000016
'n				<b>1.69</b>	_	97.2	- თ	1.000015
٤,				67.7		98•1	28.1	1.000015
41.4 -54.9				66.0	575.6	0.66	26.2	1.000015
ัง				62.7	576.6	96.3	24.9	1.000014
r.				61.2	577.1	93.6	25.0	1.00001
37.5 -53.3				59.6	577.6	92.4	25.2	1.000013
35.9 -52.6				56.7		91.6	25.6	1.000013
٠ ۳				55.3	579.1	h•06	25.6	1.000012
in i				53.9	579.6	89.2	25.6	
្រ				52.6	580.1	87.8	25.6	1.000012
•				21.5	280.6	7.00	23.6	
31.9 =50.6				50.0	581.2	# * * * * * * * * * * * * * * * * * * *	25.7	1.000011
4 (				•		7.20	7.07	
30.5 149.8 24.8 149.5				47.5 46.3	582.2	79.4	25.8 25.8	1.000011
9.1				4. U. V.	582.0	79.3	26.4	
4.8					583.1	82.1	27.1	1.000010
7.8				43.1	583.4	84.7	27.7	1.000010
7.1				42.1		87.1	00 (	1.000009
25.9 -48.2				1.0.0	584.0	7.06 60	28.7	1.000009

STATION ALTITUDE		3989.00 FEET	IT MSL	_	UPPER AIR DATA 1670020394	DATA 94		GEODETI	
16 JUNE 81 ASCENSION NO	394	1 3-0 HRS	MOT		WHITE SANDS	S		32. 106.	32.40043 LAT DEG 106.37033 CON DEG
	1			_	TABLE 6 CON'T	L'1			
GEOMETRIC	PRESSURE	3	TEMPERATURE	REL.HUM.	DENSITY	SPEED OF	WIND DATA	TA.	INDEX
ALTITUDE		AIR	¥	PERCENT	U	SOUND	DIRECTION	SPEED	J.
MSL FEET	MILLIBARS	DEGREES	CENTIGRADE		METER	KNOTS	DEGREES (TN)	KNOTS	REFRACTION
83500.0	25.3	-48.0			39.2	584.5	89.1	28.9	1.000009
84000.0	24.8	-47.8			38.3	584.8	88•0	29.1	1.000009
84500.0	24.2	9-24-			37.4		88•0	30.4	1.000008
85000.0	23.7	1-44-			36.5		89•3	33.0	1.000008
85500.0	25.1	-47.2			35.7	585.6	90•3	35.5	1.000008
86000.0	22.6	6.91-			34.8	585.9	91.4	37.1	1.000008
86500.0	22.1	-46.7			34.0		92.7	37.6	1.000008
87000.0	21.6	-46.5			33.2	586.5	93.9	38.1	1.000007
87500.0	21.1	-46.3			32.4		93.6	38.2	1.000007
88000.0	50.6	-46.1			31.7	587.0	92•3	37.7	1.000007
88500.0	20.2	-45.9			30.9		8.06	37.2	1.000007
89000•0	19.7	-45.7			30.2	587.6	90.5	36.5	1.000007
89500.0	19.3	-45.5			29.5	_	91.7	35.6	1.000007
.0.00006.	16.8	-45.3			28.8		92.9	34.7	1.000006
90500.0	18.4	-45.1			28.1	_	94•3	34.0	1.000006
91000.0	16.0	6.44-			27.5	588.6	96•1	33.5	1.000006
91500.0	17.6	L+4+-7			26.9	588.8	98•0	33.0	1.000006
92000.0	17.2	9.44-			26.2	589.1	99•3	33.3	1.000006
92500.0	16.8	-44.3			25.6	589.4	9•66	34.8	1.000006
93000.0	16.5	-44-1			25.0	589.6	6•66	36.3	1.000006
93500.0	10.1	-43.9			24.5	589.9	101.2	36.3	1.000005
0.00046	IJ	-43.7			23.9	590.1	104.7	33.9	1.000005
94500.0	Ω	-43.5			23,3		108.6	31.6	1.000005
95000.0	S	-43.3			22.8	590.6			1.000005
95500.0	3	-43.1			22.3				1.000005
0.00096	3	-42.9			21.8	591.1			1.000005
96500.0	3	-42.7			21.3				1.000005
0.00076	15.8	-42.5			20.8	_			1.000005
97500.0	13.4	-42.3			20.3	591.9			1.000005

GEODETIC COORDINATES 32.40043 LAT DEG 106.37033 LON DEG																															
GEODETIC 32.4 106.3		ID DATA	ON SPEED	TN) KNOTS	0999.0XX	14.1	21.8	10.6	9•9	9.5	12.9	7.0	7.9	15.3	19.6	20.2	38.9	46.2	35.4	32.1	26.8	6.7	14.3	11.5	8.5	11.4	54.9	25.8	29•0	37.0	
		17.3	DIRECTION S	DEGREES (TN)	0.6666	107.1	110.5	127.8	100.9	84.5	48.6	6•9	349.3	335.7	305.8	307.9	247.3	241.6	252.0	251.8	271.0	319.9	145.1	124.5	100.9	83.4	98•3	77.9	88•6	<b>₩•06</b>	
EVELS 94 DS		REL.HUM.	PERCENT		28•	32.	35.	36.	24.	18.	18.	18.	19•	21.	21.	21.															
MANDATORY LEVELS 1670020394 WHITE SANDS	TABLE 7	TEMPERATURE	DEWPOINT	CENTIGRADE	1.9	7	-3.7	-7.6	-16.5	-18.9	-22.2	-25.5	-30.5	-36.2	-42.5	L.6h-															
₹ .	11	TEMP	AIR	DEGREES	21.1	16.0	11.1	6.3	2.5	3.1	6:1	6.4-	-11.8	-19.5	-26.8	-35.3	-43.4	-51.9	-56.4	-60.7	0.99-	-67.7	-69.5	-63.4	-61.9	-58.0	-54.3	9.64-	6.74-	-45.8	-43.3
T MSL MDT		PRESSURE GEOPOTENTIAL		FEET	5224.	6928.	8711.	10583.	12562.	14683.	16978.	19455.	22137	25053.	28261.	31848.	35945.	40780.	43591.	46765.	50432.	54846.	59232.	61862.	.07649	68705.	73358.	79473.	83405.	88258.	94578.
UDE 3989.00 FEET MSL 1320 HRS MDT 394		PRESSURE 6	•	MILLIBARS	850.0	800.0	750.0	700.0	650.0	6.009	550.0	500.0	#20·0	0.004	350.0	300.0	250.0	200.0	175.0	150.0	125.0	100.0	80.0	70.0	0.09	20.0	0.04	30.0	25.0	20.0	15.0
STATION ALTITUDE 16 JUNE 81 ASCENSION NO. 3																															

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 16 JUNE 81 ASCENSION NO. (	DE 3951.40 FEET MSL 1300 HRS MDT 25	MSL JT	SIGNIFIC 16 APA TABLE 8	SIGNIFICANT LEVEL DATA 1670050025 APACHE ABLE 8	IATA	GEODETIC COORDINATES 32.62700 LAT DEG 106.39352 LON DEG
	PRESSURE MILLIBARS	E GEOMETRIC ALTITUDE S MSL FEET	TEMPE AIR DEGREES	TEMPERATUKE IR DEWPOINT REES CENTIGRADE	KEL.HUM. PERCENT	
	888.9 873.0 850.0	3951.4 4472.4 5233.9	28.25.55.55.55.55.55.55.55.55.55.55.55.55.	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17.0 28.0 30.0	
	0.857 7.00.0 7.00.0 7.60.0	9559.4 10239.7 10598.4 12032.5	10 20 01 10 10 10 10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	41.0 47.0 27.0	
	566.6 566.6 569.8 500.0	16215.3 17004.7 19474.1 25079.4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-20.5 -21.1 -24.9	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
	300.0 285.4 250.0 221.6 200.0 150.0	31895.1 33030.9 35988.3 38622.0 40824.2 46837.7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.64-	23.0	
	109.5 104.2 104.2 74.0 74.0 63.6	53204.5 54153.5 54968.9 60931.5 63981.6	7.68.7 6.89.4 7.69.4 7.69.9 7.69.8			
	67.8 57.0 37.0 34.6 22.6 23.8	64897.5 68933.0 75251.4 76683.8 79766.1 81416.5	1 1 1 5 3 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			

GEODETIC COORDINATES 32.62700 LAT DEG 106.39352 LON DEG	INDEX OF REFRACTION	1.000256 1.000257 1.000262	1.000258 1.000254 1.000250 1.000246	1.000242 1.000238 1.000234 1.000230	1.000226 1.000222 1.000220 1.000215	1.000209 1.000203 1.000197 1.000188 1.000184 1.000177 1.000175 1.000172	1.000166 1.000167 1.000167 1.000157 1.000149 1.000147 1.000144 1.000139 1.000137
GEODETIC 32.6 106.3	SPEED KNOTS	12.0	16.2 17.5 16.1 13.0	13.5 13.7 16.4 20.6	,	c •	100 000 000 000 000 000 000 000 000 000
	WIND DATA DIRECTION S DEGREES(TN) K	140.0 139.8 137.9	136.5 133.6 125.0	122.3 117.9 124.6		:- - - -	46.5 41.7 23.6 11.1 21.4
25.	SPEED OF SOUND KNOTS	677.6 677.1 672.1			656.5 654.7 652.8 650.9		642.9 641.8 640.7 638.5 637.3 632.9 634.4 632.9 622.9
UPPER AIR DAI 1670050025 APACHE TABLE 9	DENSITY S GM/CUBIC METER	1023.7 1023.4 1020.9	1008.4 995.8 983.0 970.5	956.2 946.0 934.1 922.3	910.7 899.2 887.9 876.7	863.9 850.9 850.9 821.9 806.0 770.3 752.2 752.2 740.8	715.9 703.4 681.5 681.5 660.4 650.1 640.3 681.1 681.1 593.6
<b>→</b> ⊢	REL. HUM. PERCENT	17.0 18.0 28.1	29.4 30.7 32.0 33.2	34.5 35.8 37.1	39.6 40.9 44.9	200.00 200.00 200.00 200.00 200.00	200.00 200.00 200.00 200.00 200.20 200.7
MOT	TEMPERATURE AIR DEWPOINT EGREES CENTIGRADE	11.11 13.99	3.3 2.6 1.9	111.00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11111111111111111111111111111111111111	12211111222222222222222222222222222222
3951.40 FEET 1300 HRS 19 5	TEMP AIR DEGREES	28.5 28.0 23.4	21.9 20.4 18.9 17.5	16.0 14.5 13.0	10.1 8.6 7.0 5.4	\$ 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11111111111111111111111111111111111111
~	PRESSURE MILLIUARS	884.9 887.4 872.2		797.7 783.4 769.5 755.7	742.3 729.0 715.7 702.6	684.6 664.2 651.3 651.3 627.3 610.1 610.1 594.6 571.2	50000000000000000000000000000000000000
STATION ALTITUDE 16 JUNE 81 ASCENSION NO.	GEOMETRIC ALTITUDE MSL FEET	3951.4 4000.0 4500.0	5000.0 5500.0 6000.0 6500.0	7000.0 7500.0 8000.0 8500.0	9500. 9500. 0000. 0500.	11000.0 11500.0 12500.0 13500.0 14000.0 14500.0 15500.0	17000.0 17000.0 18000.0 18000.0 19000.0 20000.0 21500.0 22500.0

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

Mot	APACHE	٠	32.62700 (
	TABLE 9 CON'T		76565.901

INDEX OF REFRACTION	1.000131	1,000128	1.000126		1.000122	1.000120	1.000118		1.000114		1.000110	1.000108	1.000107	1.000105	1.000103	1.000101	1.000100	1.000098	1 • 000096	1.000095	1.000093	•	•	1.000088	•	1.000085	1.000083	1.000082		•	1.00007		1.000074		1.000071		1.000068	•	1.000066	1.000064
SPEED KNOTS	,	•																20.0	21.1	22.1	23.1	24.6	26.5	27.6		22.9	19.5	19.5	34.9	48.9	55.0		47.2	40.6	41.6	42.2	42.2	42.1	36.6	31.1
WIND DATA DIRECTION S DEGREES(TN) K																		302.7	594.0	285.2	276.1	267.4	259.0	252.9	250.2	248.3	255.7	260•3	249.5	245.5	243.4	242•3	243.4	244.2	243.1	242.9	50400	246.0	547.4	249.3
SPEED OF SOUND KNOTS	625.3	1	622.3	620.8	619.3	617.9	616.5	615.0	613.6	612.1	610.7	609.2	607.8	606.3	8.409	603.4	601.9	60003	598.4	596.5	595.2	594.0	592.8	591.5	590 • 3	589.1	587.9	586.8	585.7	584.5	583.4	582.4	581.5	580.6	579.7	578.7	577.8	576.8	575.8	574.8
DENSITY S GM/CUBIC METER	575.9	•	558.9	550.5	÷	532.8	524.1	515.6	507.2	0.664	6.064	482.9	475.1	467.4	459.9	452.5	449.2	438.1	431.3	454.7	417.0	409.5	402.1	394.8	387.7	380.7	373.5	366.5	329.6	352.8	346.2	339.3	332.6	326.0	319.5	313.1	306.7	300.5	294.3	288.4
REL.HUM. PERCENT	21.4	21.6	21.8	22.0	22.1	22.1	22.2	22.3	22.4	22•4	22.5	22.6	22.6	22.7	22.8	22.9	22•9	50.9**	10.8**	**9*																		•		
TEMPERATURE R DEWPOINT EES CENTIGRADE	-32.6	-33.6	-34.6	-35.6	-36.5	-37.5	-38.5	-39.4	<b>†•0</b>	-41.4	-45.4	E • E • = =	じ・カナー	-45.3	-46.3	-47.3	-48.3	-50•1		-77.9																				
TEMF AIR Degrees	-15.6	-16.8	-18.1	-19.3	-20.5	-21.6	-22.8	-24.0	-25.1	-26.3	-27.5	-28.6	-29.8	-31.0	-32.1	-33•3	-34.5	-35.7	-37.2	-38.7	-39.7	-40·1	-41.6	-45.6	-43.6	-44.5	-45.4	-46.3	-47.1	0.84-	6.84-	9.64-	-50.3	-51.0	-51.7	-52•5	-53.2	-53.9	-54.7	-55-#
PRESSURE MILLIBARS	426.0	417.6	404.3	401.3	393.0	384.8	376.7	366.9	361.2	353.6	346.2	339.0	331.9	325.0	318.2	311.6	305.0	298.6	292.1	285.8	279.5	273.3	267.2	261.3	255.5	249.9	244.2	238.7	233.3	228.0	222.8	17	212.7	07.	3	•	3	÷	÷ .	180.2
GEOMETRIC ALTITUDE MSL FEET	23500.0	24000.0	24500.0	25000.0	25500.0	_	-	27000.0	27500.0	28000.0	28500.0	29000.0	. 5950 <b>0 · 0</b>	300000	30500.0	31000.0	31500.0	32000.0	32500.0	33000.0	33500.0	34000.0	34500.0	35000.0	35500.0	36000.0	36500.0	37000.0	37500.0	38000.0	38500.0	39000.0	•	40000	•	•	41500.0	2000	2500	43000.0

<sup>\*\*</sup> AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

WI'IN NATA Thigh Is note to were this case and its **\*** 

DETIC COOKDINATES 32.62700 LAT DEG 106.39352 LON DEG	INDEX OF REFRACTION	1.000063	1.000060	1.000058	1.000057	1.000054		1.000052		•	1.000048	1.000047	•	1.000044	•	1.000042		1.000040	.00003	1.000037	1.000036	1.000034	1.000033	1.000032	1.000032	1.000031	1.000030	1.000029	00000	1.000027	0000	1.000025	1.000025
GEODETIC 32.62 106.39	TA SPEED KNOTS	29.9	32.2	37.5	35.2	31.0	29.1	25.1	24.0	22.8	22.5	22.4	21.2	21.7	22.6	22.4	7.1.7	12.8	7.6	8.5	ν, π ο ο	8	10.1	10.4	10.6	10.7	0.01	9.6	•	8.0	7.1	0.9	2.0
	WIND DATA DIRECTION S DEGREES(IN) K	250.4	249.7	245+1	243.9	246.9	250.9	260.9	264.2	267.9	269.2	275.6	282.1	283.0	281.1	279.3	77.7	286.1	308•1	319•3	107.6	138.3	141.3	139.7	137.9	1930	127.0	124.5	123.4	124.1	124.2		1111.3
DATA 25 I'T	SPEED OF SOUND KNOTS	573.9	571.9			567.0	566.1	564.4	563.5	562.6	561.8	560.0	559.1	558.9	559.2	559.6	557.6	557.3	557.5	557.5	557.6	557.8	557.8	557.9	558.0	558•1	557.4	556.7	556.6	560.0	563.4	563.6	563.4
UPPER AIR DAT. 1670050025 APACHE TABLE 9 CON'T	DENSITY GM/CUBIC METER	282.5	271.2	260.3	255.0	244.7	239.4		224.4	219.6	214.9	205-8	201.4	196.6	191.4	180.4	179.4	174.3	169.9	165.6	151.4	153.4	149.5	145.8	142.1	138.5	132.0	129.0	125.9	121.3	116.8	113.9	111.2
- <b>F</b>	REL.HUM. PERCENT																																
3951.40 FEET MSL 1300 HRS MDT 5	TEMPERATURE AIR DEWPOINT GREES CENTIGRADE	ୟ ଦ	t Q	-	ው ው	<b>10</b>	<b>5</b> (	מו נ	σ.	vo c	N 6	v ro	٠01	<b>.</b>	0	a ro	) <b>1</b> 0	· in	<b>.</b>	<b>60</b> K	D 61	. 01				- C	\ .=•	•	_	10	0	<b>G</b>	c
1300 H	DE	-56.2 -56.9	-57.6	-59.1	-59.9	-61.3	-629-	-63	-63•	9-19-	165.0	99-	-67.2	₽-67.4	-67.1	-67.3	-68	-68.5	-69•	-689	-68.2	-68.2	-68•1	-68.1	0.09	-67	-68.4	0.69-	-69.1	-66.5	0.49-	-63	-64.0
TUDE.	PRESSURE MILLIBARS	176.0	167.7	159.9	156-1 152-4	148.8	141.6	138.1	134.8	151.5	125.1	122.0	119.0	116.1	113.2	107.7	105.0	102.4	96.00	0.00	92.6	90.3	88.0	85.8	93.1	79.6	77.6	75.6	73.7	71.9	70.1	φ•89·	8.19 9.19
STATION ALTI 16 JUNE 81 ASCENSION NO	GEOMETRIC ALTITUDE MSL FEET	43500.0	44500.0	9	500.	9		_	0.00064			51000.0										57000.0	÷	58000.0	: :	59500.0	600000	500	000	500	000	2500	0.00000

UPPER AIR DATA			
	STATION ALTITUDE 395	16 JUNE 81 1	ASCENSION NO. 25

ហេចឲ																																							
COORDINATE 2700 LAT DE 9352 LON DE	INDEX OF REFRACTION	1.000024	1.000024	1.000023	1.000022	•	•	•	•	.00001		•	.00001	.00001	100001	1.00001			.0000	.00001	1.000014	1.000014	•	1.000013		10000	1.000012			•				.00001	.00001	10000	1.000009	1.00000	1.000009
GEODETIC 32.6 106.3	SPEED KNOTS	4.6	<b>3. 3</b>	4.8	6.7	ტ •	9.5	10.5	10.9	10.6	101	C•11	12.8	10.01	18.0	7.12 8.80	0,00	27.8	27.8	27.9	27.3	26.3	25.4	22.0	24.8	24.0	* * * * * * * * * * * * * * * * * * *	2 - 20	25.75	27.0	20.0	27.A	26.6	25.7	26.7	27.7	28.3	27.3	
	WIND DATA DIRECTION SP DEGREES(TN) KN	109.2	109.3	108.7	107.4	106.7	102.9	<b>9.66</b>	0.66	102.6	700	7 · · ·	7 ·	? • 0 • 0 • 0	6.70	73.66	0.06	8•46	97.8	100.7	100.5	97.9	95.0	93•1	91.5	0.06	7 • 7 8	2 4	80.00	2.19		80.2	79.0	77.5	74.3	71.3	70.3	75.3	9•08
85 - T -	SPEED OF SOUND KNOTS	563.3	563.2	565.3	567.0	567.5	568.0	568.5	569.0	569.5	0.070	2,0.0	571.0	5/1.4	571.8	572.6	573.1	573.5	573.9	574.3	2.4.2	575.2	575.6	576.0	577.0	2,60	580.3	7.100	581.7	100	5,000	582.6	582.7	582.6	582.5	582.6	583.5	584.3	585.2
1670050025 APACHE TABLE 9 CON'T	DENSITY S GM/CUBIC METER	108.5	105.9	102.6	99.5	6.96	3.46 1	92.0	89.7	4.70	62.1	0.00	8.00	8.87	9.0	, t. v.	71.5	5.69	67.7	0.99	4.49	62.8	61.2	59.7	58.1	+ on i	9 + 6 9 + 6 9 + 6	, c	20.05	600	7 . C . T	47.4	2	45.2	2.44	43.1	42.0	41.0	39.9
	REL.HUM. PERCENT																																						
51.40 FEET MSL 1300 HRS MDT	TEMPERATURE AIR DEWPOINT EGREES CENTIGRADE	4•1	t•1	2•6	-61.3	-61.0	9.09	2.091	-54-8	157.0	1070 1000		† 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	_56*U	3.6	57.1	-56.8	6.5	5.1	5.8	5.5	5.2	154.0	9.	-55.0   15.0   1	7	-51.5		4.00°	1000	-60-7	9.5	7.6	9•5	9.5	9.5	-48.8	8.2	_
	٥	19-	<del>1</del> 9-	-62	9	9	Ģ I	S i	S i	n i	n ii	n i	֝֞֝֞֝֞֝֞֝֞֝֞֝֞֝֞֝֞֝֞֝֞֝֞֝֞֝֞֝֞֝֞֝֞֝֝ ֓֞֞֞֞֞֞֞	וֹי וֹ	n M	i I	יי פ	120	1	ij	ì	ij	io i	ָרְאַ וּ	iń i	ñ	ų į	į	Ì	יו ר	1	1	7	7-	31	31	ŧ	-48	1
ALTITUDE 39 81 0N NO. 25	PRESSURE MILLIBARS	65.1	63.5	62.0	60.5	-	57.6	200	٠٠٠ ١٠٠٠	0.00	5.4.	1 0	10.44 10.44	2 - C - C		# S	44.2	45.2	42.2	41.2	40.5	39.3	38.4	10.0	30.0		7 - AE	1 P	32.6	8-15		30.4	29.7	•	28.3	•	•		•
STATION ALTI 16 JUNE 81 ASCENSION NO	GEOMETRIC ALTITUDE MSL FEET	•	0.00049	64500.0	65000.0	5500.	0009	0.00599	0.000/9	0.0000	0.0000	00000	•		70500		_		_	•	•	-		•	75500.0	0.0000	77000.0	77500.0	78000.0	78500.0	79000.0	500	0000	0200	81000.0	S	20	82500.0	r)

v o o	
GEODETIC COORDINATES 32.62700 LAT DEG 106.39352 LON DEG	INDEX OF OF REFRACTION 1.000008 1.000008 1.000008
6E0DET 32 106	SPEED KNOTS
	F WIND DATA DIRECTION SPE DEGREES(TN) KNO
DATA 25 4' T	SPEED OF SOUND KNOTS 586.0 586.8 587.7 588.5
UPPER AIR DATA 1670050025 APACHE TABLE 9 CON'T	DENSITY SPI GM/CUBIC SC METER KI 38.9 9 37.9 37.0 36.0
<b>⊃</b>	REL.HUM. DENSITY SPEED OF PERCENT GM/CUBIC SOUND METER KNOTS 38.9 586.0 37.9 586.8 37.0 587.7 36.0 588.5 35.1 589.4
T MSL MDI	PRESSURE TEMPERATURE AIR DEWPOINT MILLIBARS DEGREES CENTIGRADE 25.3 -46.9 24.7 -46.2 24.2 -45.6 23.6 -44.9 23.1 -44.3
3951.40 FEET MSL 1300 HRS MDT 25	AIR AIR DEGREES -46.9 -45.6 -44.9
	PRESSURE MILLIBARS 25.3 24.7 24.2 23.6 23.6
STATION ALTITUDE 16 JUNE 81 ASCENSION NO.	GEOMETRIC PRESSURE ALITUDE MSL FEET MILLIBARS 83500.0 24.7 84500.0 24.7 84500.0 24.2 85500.0 23.5

GEODETIC COORDINATES 32.62700 LAT DEG 106.39352 LON DEG	DATA	SYEED KNOTS	17.1	13.4	XX0*6666	XX0*6666	XX0*6666	XX0*6666	10.5	XX0.6966	399.0XX	XX0*6666	XX0*6666	19.8	.23.1	42.2	29.9	31.8	22.4	8.2	10.8	7.1	7.2	12.5	27.2	27.2	
	ONIN	DEGREES(TN) KN	135.9	123.7		6 0.6666	6 0.6666	6 0.6666	42.1		6 0.6666	6 0.6666	6 0.6666		248.0	242.4	250.6	245.5	270.4	304.2	130.8	124.1	107.2	95•4	100.2	79.7	
EVELS 25	REL . HUM.	PERCEN	30•	34.	39.	45.	25.	20.	20•	20.	21.	22.	22.	23.													
MANDATORY LEVELS 1670050025 APACHE TABLE 10	TEMPERATURE	CENTIGRADE	3.0	ល	-2.5	-5.8	-15.2	-18.4	-21.1	-24.9	-30.0	-35.7	-41.9	0.65-													
₹ ⊢.	TEMP	Š	21.2	16.2	10.9	5•1	2.9	1.9	-1.0	-5.6	-12.2	-19.5	-26.9	-35.4	-44.5	-52.2	-56.3	-61.1	-62.9	-68.4	-67.9	-63.8	-61.2	-58•4	-55.4	4.64-	-46.6
r MSL MDT	PRESSURE GEOPOTENTIAL	FEET	5230.	6936.	8719.	10588	12561.	14688.	16973.	19447.	22124.	25037.	28246•	31831.	35909.	40725.	43234	46710.	50384.	54796.	59192.	61828.	64935.	68673.	73310.	79454	83357.
: 3951.40 FEET MSL 1300 HRS MDT 25	PRESSURE G	MILLIBARS	850.0	800.0	750.0	200.0	650.0	600.0	550.0	200.0	450.0	400.0	350.0	300.0	250.0	200.0	175.0	150.0	125.0	100.0	90.0	70.0	0.09	20.0	40.0	30.0	25.0
STATION ALTITUDE : 16 JUNE 81 ASCENSION NO. 2																,											

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

GEODETIC COORDINATES 32.88497 LAT DEG 106.49714 LON DEG			
DATA	REL.HUM. PERCENT	22 4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
SANT LEVEL 570220046 30	TEMPERATURE AIR DEWPOINT GREES CENTIGRADE	1 1 1 1 1 1 1 2 2 3 3 3 3 3 3 3 3 3 3 3	
SIGNIFIC 16 NW TABLE 11	TEMPI AIR DEGREES	0 3 4 4 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
MSL )Ţ	E GEOMETRIC ALTITUDE. S MSL FEET	4010.4 4506.7 7246.1 10033.6 110582.7 11362.7 11362.7 11362.7 15504.3 16379.2 255045.9 255045.9 255045.9 33857.1 33779.8 34679.8 41084.7 416806.1 54987.0 61034.1 61013.4 61013.4 61013.4 61013.4 61013.4 61013.4 61013.4 61013.4 61013.4 61013.4 61013.4 61013.4 61013.4 61013.4 61013.4 61013.4 61013.4 61013.4 61013.4	
STATION ALTITUDE 4010.40 FEET MSL 16 JUNE 81 1320 HRS MDT ASCENSION NO. 46	PRESSURE MILLIBARS	886.2 871.2 850.0 771.4 771.4 771.4 771.4 771.4 77.2 77.2 77.2 77.2 77.2 77.2 77.2 77	

ET MSL	5
4010.40 FEET MSL	4.050 FINS
STATION ALTITUDE	NO.
STATION	ASCENDI

SIGNIFICANT LEVEL DATA 1670220046 NW 30

GEODETIC COORDINATES 32.88497 LAT DEG 106.49714 LON DEG

TABLE 11 CON'T

REL.HUM. PERCENT TEMPERATURE AIR DEWPUINT DEGREES CENTIGRAUE

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET

6.04-15.5 94327.8

STATION ALTITUDE 16 JUNE 81 ASCENSION NO.	TUDE.	4010.40 FEET MSL 1320 HRS ADT 6	T MSL (10T	- <b>-</b>	UPPER AIR DAT. 1670220046 NW 30 TABLE 12	DATA #6		GEODETI 32. 106.	GEODETIC COORDINATES 32.88497 LAT DEG 106.49714 LON DEG
GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	96	TEMPERATURE AIR DEWPOINT GREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION SI DEGREES(IN) KI	TA SPEED KNOTS	INUEX OF REFRACTION
4010+	880.2	29.9	5.9	22.0	1014.7	679.5	150.0	7.0	1.000264
4500.0	871.4	25.5	11.2	40.7	1010.7	675	64	8.3	1.000282
2000•0	856.3	23.0	4.1	29.1	1003.6		148.4	9.7	1.000259
5500.0	841.4	21.1	٠,	24.8	993.4		147.9	11.0	1.000249
0.0009	820.6	19.5	۳· ۱	o	981.2		147.5	12.4	1.000245
6500.0	812.0	17.9	6••	27.8	969.2	9•599	147.2	13.7	
7000	10161	16.4	-1.6	29.3	٠,	663.7	•	13.6	•
7500.0	783.6	14.8	N C	31.1	945.5		151.8	13.4	1.000235
9500.0	755.6	13.0	0 F	30.05	933.6	2.099			1.000021
0.0006	741.9	10.2	100	36.0					•
0.0056	728.5	8.7	-5.0	37.5	898.6				
0000	715.3	7.1	-5.9	38.9	887.3				1.000217
10500.0	702.2	6.2	-6.7	39.0	874.0	651.7			1.000213
1000	689.2	5.1	<b>-9.5</b>	34.6	861.3	650.4			1.000207
11500.0	670.4	t•1	-12.1	29°4	848.8	_			1.000201
12000.0		N 1	-14.8	25.2	835.9				1.000196
12500.0	651.5	2.7	-16.4	22.8	822.1				1.000192
2000	6039.4	7.7	7.81	20.0	808	_			1.000187
14000.0	615.7		-19.5	18.0	780.6	545.4			1.000184
4500	604.1	1.1	-20.5	18.0	766.7				1.000177
5000	592.8	8.	-21.0	17.5	753.2	_			1.000174
5500	581.7	9•	-21.6	17.1	739.8	_			1.000170
16000.0	570.8	- :	-22.0	17.0	727.0				1.000167
16500.0	360.0	<b>.</b>	-22-4	17.0	714.8	_			1.000164
17500.0	534.0		1 8 8 C 1	17.0	690.4	042.0			1.000152
18000.0	520.8	-3.0	-24.6	17.0	681.5	640.5			1.000156
18500.0	510.7	0.4-	-25.4	17.0	6.079				1.000153
19000.0	S08•8	6.4-	-26.1	17.0	660.5	638.2			1.000151
19500.0	0.664	-5°-9	-56.9	17.0	650.2	637.0	305.6	35.8	1.000148
20000.0	489.2	-7.2	-27.8	17.4	9.049		319.5	12.4	1.000146
	9*625	-8.5	N	17.7	631.1		336•3	4.9	.0001
1000	470.2	8•6-	-29.6	18.0	621.B		338•8	6.4	1.000141
21500.0	461.0	-11:-1	30.	18.	612.6		324.8		00013
22000-0	451.9	-12.4	<b>:</b> (	18.	603.6	9	515.5		ni
22500.0	0.00	-13.7		19.0	294.7	627	311.6	<b>.</b>	n
23000.0	0 + 10 + 3	15.0		10.4	586.0	3	309.5	14.5	000
0.0000	25.0	-10.3	T • +C =	•	***	****	215.5	1001	1.000131

XX WIND DATA INVALID DIJE TO MISSIPIG RAW AZIMUTH AND ELEVATION ANGLES.

GEODETIC COORDINATES 32.88497 LAT DEG 106.49714 LON DEG		INUEX	REFRACTION	1.000128	1.000126	1.000124	1.000122	1.000120		•	1.000114	1.000112	1.000110	1.000103	1.000105	1,000103	1.000101		1.000099	1.000096	1.000094		1.000091	1.000090	1.000088	1.000086	1.000085	1.000083	1.000082	1.000060	1.000078	1.000077	1.000075	1.000074		1.00001	1.000070	1.000068	1.000067	1.000066	1.000064	1.000063
GEODETI 32. 106.		DATA	KNOTS	11.6	13.7	14.8	14.3	15.1	16.4	· · · · ·	•	10.4	•	15.0	17.8	•		17.5	16.6	) (C	14.7	m	S	19.5	24.5	•	32.9	35.0	36.7	37.1	37.6	37.7	37.6	36.9	36.1	38.4	40.5	40.8	41.1	37.7	•	31.6
		WIND DA	DEGREES (TN)	315.9	321+3	323.5	322.4	321.5	320.1	320.0	550.5	3636	320.0	323.0	118.6	115.7	A.5.1.K	312.4	311.A	310.6	305.0	298.3	281.3	267.6	261.3	257.8	256.5	255.8	254.8	252.7	250.7	548·th	248.3	546.9	245.5	245.1	8.442	245.0	245.1	544.8	÷	243.9
DATA Ib	۲, <u>۲</u>	SPEED OF	KNOTS	625.9	621.8	620.8	619.4	618.0	616.5	19619	613.7	612.5	1-010	0020	605.4	0.000	2000	60103	2005					592.3	591.1	589.9	588.7	587.4	586.0	585.1	584.7							-	5.925	575.8	575.4	575.0
UPPER AIR DATA 1670220046 NW 30	TABLE 12 CON'T	DENSITY S	METER	568.8		549.9	541.0	•	523.8	•	507.6	N. 665	7•16t	100 to 10	94.0	_			0.00	0.000 a	423.7	416.7	409.5	402.1	394.7	387.5	380.5	373.6	366.8	359.7	352.0	オ・オカの	337.4	331.2	325.2	319.2	313.2	306.9	300.8	294.1	287.6	281.3
	_	REL . HUM.		20.0	19.5	19.0	19.0	19.0	19.0	0.61	0.61	0.61	0.01	0.01	0.01		15.5	****	•															•	•							
ET MSL. MDT		TEMPERATURE DEMPOTNT	CENTIGRADE	-35.1	-36.0	-37.0	-38.0	-38.9	-39.9	۸•0±1	8• Th.	N F	7 to 1	0.04	100-			1,50,1	•																							
.0.40 FEET MSL. .320 HRS MDT		TEMP	DEGREES	-17.6	-18.5	-19.3	-20.4	-21.6	-22.7	123.9	-25.0	7.02	0 0 0	-2000	41.14	7.02	0.44.0	135.0	36.1	- 47. E	-38.6	-39.9	-41.0	-42.0	-42.9	-43.9	8.44-	-45.8	6.94-	-47.6	-47.9	-48.2	-48.8	8·6h-	-50.9	-52.0	-52.9	-53.7	-54.4	-24.7	-55.0	-55.3
.TITUDE 401 1 NO. 46		PRESSURE	MILLIBARS	417.4	0.604	400.7	392.5	384.5	376.6	2000 F	201.0	000 k	0.0 0.0 0.0	3.0%	325.0	3.4.5	311.4	304.7	2080	291.6	285.2	279.0				255.1			234.3	232.9	227.6	222.4	217.3	212.3	207.4	202.7	198.0	195.4	188.9	184.4	ċ	175.9
STATION ALTITUDE 40 16 JUNE 81 ASCENSION NO. 46		GEOMETRIC	MSL FEET	24000.0	4500	25000.0	25500.0	26000.0	26500.0	0.00072	0.00072		200000	•	•				•	32500.0	•	33500.0	34000.0	34500.0	35000.0	35500.0	36000.0	36500.0	37000.0	37500.0	38000.0	38500.0	39000.0	39500.0	40000	40500.0		41500.0	•	2500.	3	43500.0

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

GEODETIC COOKDINATES 32.88497 LAT DEG 106.49714 ION DEG		INDEX	REFRACT 10N	1.000061		1.000059	1.000058	1.000057	1.000056	1.000054	1.000053	1.000051	1.000050	1.000049	•			1.000045		1.000043	1.000041	1 +00004 1	1.000039		1.000037	1.000036	1.000035	1.000034	1.000033	1.000032	1.000031	1.000030	1.000029	1.000028	1.000027	1.000027	1.000026	1.000025	1.000025	*>0000 *
6E00ET1		17A	KNOTS	31.3	31.1	31.7	32.2	31.2	30.0	28.8		27.4	28.1	28.7	29.1	29.6	27.0	23.3	19.8	16.2	9.0	, A	, r	1.8	3.1	8 · S	6.5		0 4	9.0	7.8	7.9	8.1	7.1	? . Q		ເ ເ ເ	, o	0 -	•
		WIND DATA	DEGREES (IN)	243.4	243.0	243.2	243.3	542.9	249.1	253.1	2.962	266.4	269.7	272.1	274.2	276.3	278.6	281.8	286.0	7.197	1.602	1062	335.3	40.3	105∙8	122.4	137.5	151.4	159.5	156.6	153.7	151+3	149.1	140.5	113.1	75.7	500.5	23.5		2346
DATA 46		SPEED OF		574.1	572					566.9	565.9			562.0		_					2000						_	556.6		_		_								7.746
	IABLE 12 C	DENSITY	METER	275.5	270.0	264.7	259.5	254.4	7.642	# * # # Z	0.000 0.000	2. P.C.C.	224.5	219.7	215.1	210.6	206.2	201-1	196.0	191.1	100.2	177.0	174.0	170.0	165.8	161.6	157.6	153.6	971	142.4	138.8	135.3	132.0	127.5	123.1	119.9	116.9	114.0	111.2	C • O ∩ T
,	_	REL.HUM.																																						
4010.40 FEET MSL 13:0 HRS MOT		TEMPERATURE	J	0.	6	89		9	ស្ន	<b>.</b>	- 0	` · ·		•1	€ .	٠ <u>٠</u>		2 (	<b>V</b> •		2 5		, rů	0	•	•	0	<b>&gt;</b> -		•	0.	0.	0	Ç,	0 1		บ็ต	Č I	Ç II	2
13.40			0	-56.0	-56.9	-57.8	-58.7	-59.6	-60.5	101	1000	63.6	-64.3	-65.1	-65.8	9.99	67.5	6/93	7.19	10/01	7.7	68.0	-68.5	-69.0	0•69-	0.69-	0.69-	0.69	69.	0.69-	0.69-	0.69-	0.69-	-67.0	-65.0	164.1	-64.5	0.00	-6440 -6440	D
TGOE.		PRESSURE	MILLIBARS	171.7	167.6	163.6	159.7	155.9	152.2		141.4	137.9	134.5	131.3	120.0	124.9	121.9	110.0	110.9	0.011	107.5	104.8	102.2	9.66	97.1	94.7	92.3	90.06	9.48	85.4	81.4	79.3	77.3	75.4	C • C • C	/1./	6.07	2.00	0.00	2
STATION ALTI- 16 JUNE 81 ASCENSION NO		GEOMETRIC ALTITINE	MSL FEET	0.00044	44500.0	45000.0	45500.0		46500.0	0.000.4	0.0004	48500.0	49000	.0.0056h.	50000.0	50500.0	0.00015	_	0.00020	0.00055	0.0000			55000.0	55500.0	56000.0		57500.0			28000.0	59500.0	0.00009	60500·0	0.00019	61500.0	62000.0	0.00529	6 3500	•

STATION ALTITUDE	· ·	4010.40 FEET MSL 1320 HRS MDT	-	UPPER AIR DATA 1670220046 NW 30	DATA 46		GEODETIC 32.88	ETIC COORDINATES 32.88497 LAT DEG
ASCENSION NO	.0N			TABLE 12	CON'T		106.	106•49714 LON DEG
GEOMETRIC	PRESSURE	TEMPERATURE	REL.HUM.	DENSITY	SPEED OF	WIND DATA	TA	INDEX
MSL FEET	MILLIBARS	S	בעכו	METER	KNOTS	DEGREES (TN)	KNOTS	REFRACTION
64000.0		-64.1		105.6		10001	•	1.000024
64500.0		-63.0		102.5		144.3	3.8	1.000023
65000.0		-61.9		9.66		132.1	2.6	1.000022
65500.0		-60.8		7.96		120.2	7.7	1.000022
0.00099		1.59.1		93.8		113.6	•	1.000021
67000.0	000 1000 1000 1000	158.0		91.2	570•3	109.7	13.8	1.000020
67500.0		-58.3		86.7		104.7	15.7	1.000019
68000.0	54.2	-58.0		84.5		6.66	16.5	1.000019
68500.0		-57.7		82.4		2.46	17.1	1.000018
0.00069		-57.5		80.4		0.06	17.8	1.000018
69500.0		-57.2		78.4		88.1	21.2	1.000017
70000		-57.0		76.4		87.2	25.1	1.000017
71000-0		-20.4 		75.0	573-1	30.00 50.00	29.0	1.000017
71500.0				70.07			20.7	1.00001
72000.0		-56.0		69		92.5	29.7	1.000015
72500.0		-55.8		67.5		93.5	28.2	1.000015
73000.0	41.	-55.5		65.8		94.1	26.0	1.000015
73500.0	9	-55.3		64.2		6.46	23.9	1.000014
74000.0	2°65	C = 10.1		62.6	575.6	94.5 00.00	24.3	1.000014
75000-0	30°C	133.4		200		9.40	7.70	1.00001
75500.0	36.5	-51.7		57.5		90.5	27.8	1.000013
76000.0	35.7	-50.7		55.9		88.9	26.9	1.000012
76500.0	34.9	-50.7		24.6		87.2	26.0	1.000012
77000.0	4	-50.6		3° 60 1	581.2	85.5	24.8	1.000012
7,500.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	-50°-6		1.20		B•6	22.0	1.000012
78500.0	36.5	יש מים מים		000		79.7	0.17	1.0000.1
79000				7.60	מינ מיני	7.77	F - 00	1.00001
79500.0	3000	3.00		47.5		75.8	20.8	1.000011
	29.7	-50.1		46.3		74.4	21.5	1.000010
•	29.0	9.61-		45.5	582	73.9	22.7	1.000010
•	28.3	0.64-		0.44	_	73.4	23.9	1.000010
ခဲ	27.7	1 · 81-		42.9	584	73.4	25.1	1.000010
•	27.1	6-24-		41.9	_	75.2	26.5	1.000009
_	•	14.7.5		800		6.9/	27.9	1.000009
83500.0	25.3	146.2		38.8	586.9	7.67	30.5	1.000009

STATION ALTITUDE		10.40 Fet	ET MSL	J	UPPER AIR DATA 1670220046	DATA		GEODETT	GEODETIC COORDINATES
16 JUNE 81	3	1320 HRS MDT	MOT		NW 30	þ		32.	32.88497 LAT DEG
					TABLE 12 CON'T	CON'T			ייין בטון טבט
GEOMETRIC	PRESSURE	TEM	TEMPERATURE ATR DEMODINE	REL.HUM.	DENSITY	SPEED OF	WIND DATA	18	INDEX
MSL FEET	MILLIBARS	DEGREES		- Everin	METER	KNOTS		KNOTS	REFRACTION
84000.0	24.7	-45.6			37.8	587.7	80.9	31.7	1.000008
84500.0	24.1	-45.3			36.9		82.0	32.9	1.000008
85000.0	23.6	145.4			36.1	-	82.5	34.4	1.000008
85500.0	23.1	-45.5			35.3	587.8	85.9	35.9	1.000008
86000.0	52.6	-45.6			34.5		83•3	37.5	1.000008
86500.0	22.0	-45.7			33.8	587.6	85.8	37.1	1.000008
87000.0	21.6	-45.7			33.0		88•9	36.4	1.000007
87500.0	21.1	-45.8			32.3		92.0	35.9	1.000007
88000.0	50.6	-45.9			31.6		93•1	36.2	1.000007
88500.0	20.1	-46.0			30.9		95.8	37.0	1.000007
89000•0	19.7	-45.7			30.2	587.6	95.6	37.8	1.000007
89500.0	19.3	-45.5			29.4		92.0	38.0	1.000007
0.00006	16.8	8.44-			28.7	588.7	2.06	37.1	1.000006
90200.0	18.4	-tt-3			28.0		₩•68	36.2	1.000006
91000.0	18.0	6.54-			27.3		87.9	35.3	1.000006
91500.0	17.6	ナ・ハナー			26.7		9006	30.0	1.000006
92000.0	17.2	-43.0			26.0		95•0	24.7	1.000006
92500.0		-42.5			25.4	591.6	101.5	19.6	1.000006
93000.0		-42.1			24.8	592.2			1.000006
93500.0	16.1	-41.6			24.2	592.8			1.000005
0.00046	15.7	-41.2			23.6	593.3			1.000005

GEODETIC COORDINATES	106.49714 LON DEG			۵	v																										
GEODE	2		WIND DATA			10.2	13.7	8999°0XX	8666° 0XX	3999.0XX	9999.0XX	3999.0XX	38.5	9.1	14.8	14.4	16.9	32.6	39.7	31.6	29.4	29.6	2.0	7.9	5.8	5,9	17.6	23.8	21.0	31.0	37.1
					DEGREES(TN)	148.2	148.7	0.6666	0.6666	0.6666	0.6666	0.6666	305.1	314.0	323.4	324.7	312.0	256.6	544.9	243.8	251.0	276.2	23.8	152.2	6.09	129.5	91.2	6•46	75.1	80.2	92.8
EVELS			KEL . HUM.	PERCENT	4.4	24.	29•	35.	39.	23.	18•	17.	17.	19.	19.	19.															
MANDATORY LEVELS 1670220046 NW 30	2	TABLE 13	ERATURE	R DEWPOINT	DEGREES CENTIGRADE	٠.	-1.4	-3.7	6.9-	-16.6	-20.7	-23.1	-26.9	-31.6	-37.1	143.4															
I		•	_		DEGREES	22.0	16.6	11.1	6.0	2.6	1.0	-1.2	-5.8	-12.7	-19.4	-26.9	-35.7	-44.7	-52.6	-55.4	-61.1	-66.5	-69.0	-69.0	-64.5	-61.6	-57.5	-55.3	-50.4	-45.9	-46.0
T MSL			PRESSURE GEOPOTENTIAL		FEET	5209.	6918.	8702.	10573.	12549.	14665.	16952.	19424•	22097.	25005.	28214.	31794.	35869.	40687.	43496.	46680.	50348.	54758.	59135.	61785.	64885.	68639.	73287.	79413.	83355.	88233.
4010.40 FEET MSL 1320 HRS MDI	94		PRESSURE 6	1	MILLIBARS	850.0	0.008	750.0	100.0	650.0	0.009	550.0	200.0	450.0	400.0	350.0	300.0	250.0	200.0	175.0	150.0	125.0	100.0	80.0	70.0	0.09	20.0	40.0	30.0	25.0	20.0
STATION ALTITUDE	ASCENSION NO.															•															

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

